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| 1. Find JK in the figure below. | 2. How are the triangles similar? |
| 3. You and your friend are standing next to one another outside. Your shadow is 23 inches long and your friend's shadow is 24 inches long. You are 5 feet 5 inches tall. Approximately how tall is your friend, rounded to the nearest tenth? *(note: 12 inches = 1 foot)* | 4. BE is parallel to CD. Find the measure of BC. |
| 5. In order to estimate the height *h* of a tall pine tree, a student places a mirror on the ground and stands where she can see the top of the tree, as shown. The student is 6 feet tall and stands 3 feet from the mirror which is 11 feet from the base of the tree. What is the height *h* (in feet) of the pine tree? | 6. If two angles of one triangle are congruent to two angles of another triangle, then the triangles are \_\_\_\_\_\_ .  A. equilateral  B. right triangles  C. equiangular  D. similar  E. regular  9.4 GC/PPF601 |
| 7. In a 45°-45°-90° triangle, the hypotenuse is \_\_\_\_\_\_ times as long as each leg.  A.  B.  C.  D.  E. | 8. Find the value of ‘A’ in the triangle shown below. |
| 9. Find the length of side *x* in the triangle below.  x  18 m  60°   1. 6 2. 6√3 3. 9 4. 9√2 5. √18 | 10. What is the value of x? Round your answer to the nearest tenth.    A. 3.5  B. 5.0  C. 6.4  D. 7.0  E. 7.1 |